

<b>Exploring the Extreme</b>			
<b>2006 Science</b>			
<b>Content and Achievement Standards</b>			
<b>North Dakota Science</b>			
<b>Grade K</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	ND	SCI.K.K.1.1	Identify models (e.g., dolls, stuffed animals, toy vehicles) that are not real
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<b>Grade 1</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	ND	SCI.1.1.1.1	Identify models that represent real objects (e.g., globe represents the Earth, doll represents a real baby)
Finding the Center of Gravity Using Rulers	ND	SCI.1.1.8.1	Identify ways (e.g., create things, ask questions, make observations, figure things out) that everybody can do science
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<b>Grade 2</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	ND	SCI.2.2.2.2	Communicate (e.g., verbal, written, graphic) observations to others
Finding the Center of Gravity Using Rulers	ND	SCI.2.2.3.4	Describe an object's location (e.g., further than, beside, under, over) relative to another object
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<b>Grade 3</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	ND	SCI.3.3.2.2	Ask questions directly related to a scientific investigation
Finding the Center of Gravity Using Rulers	ND	SCI.3.3.2.3	Record observations (e.g., journals, drawings, charts) based on simple investigations
Finding the Center of Gravity Using Plumb Lines	ND	SCI.3.3.2.2	Ask questions directly related to a scientific investigation

Finding the Center of Gravity Using Plumb Lines	ND	SCI.3.3.2.3	Record observations (e.g., journals, drawings, charts) based on simple investigations
Changing the Center of Gravity Using Moment Arms	ND	SCI.3.3.2.2	Ask questions directly related to a scientific investigation
Changing the Center of Gravity Using Moment Arms	ND	SCI.3.3.2.3	Record observations (e.g., journals, drawings, charts) based on simple investigations
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<b>Grade 4</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	ND	SCI.4.4.2.1	Review and ask questions about the scientific investigations of others
Finding the Center of Gravity Using Rulers	ND	SCI.4.4.2.3	Use scientific tools (i.e., thermometers, rulers, balances) during simple investigations
Finding the Center of Gravity Using Rulers	ND	SCI.4.4.3.4	Identify the effects forces may have when applied to objects (i.e., start, stop, change direction)
Finding the Center of Gravity Using Plumb Lines	ND	SCI.4.4.2.1	Review and ask questions about the scientific investigations of others
Finding the Center of Gravity Using Plumb Lines	ND	SCI.4.4.2.2	Conduct simple investigations to answer questions based on observations
Changing the Center of Gravity Using Moment Arms	ND	SCI.4.4.2.2	Conduct simple investigations to answer questions based on observations
Changing the Center of Gravity Using Moment Arms	ND	SCI.4.4.3.4	Identify the effects forces may have when applied to objects (i.e., start, stop, change direction)
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<b>Grade 5</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Jet Propulsion	ND	SCI.5.5.1.1	Use an appropriate model (e.g., drawing, equation, computer program, diagram, or 3-D device) to convey scientific information
Jet Propulsion	ND	SCI.5.5.2.1.	Communicate scientific procedures (e.g. visual display, graph, journal, oral presentation) that enable others to repeat the investigation

Vectoring	ND	SCI.5.5.1.1	Use an appropriate model (e.g., drawing, equation, computer program, diagram, or 3-D device) to convey scientific information
Vectoring	ND	SCI.5.5.2.1.	Communicate scientific procedures (e.g. visual display, graph, journal, oral presentation) that enable others to repeat the investigation
Center of Gravity, Pitch, Yaw	ND	SCI.5.5.1.1	Use an appropriate model (e.g., drawing, equation, computer program, diagram, or 3-D device) to convey scientific information
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<b>Grade 6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Jet Propulsion	ND	SCI.6.6.1.1	Construct a model to represent concepts, features, or phenomena in the real world (e.g., solar system, earth's interior)
Vectoring	ND	SCI.6.6.1.1	Construct a model to represent concepts, features, or phenomena in the real world (e.g., solar system, earth's interior)
Vectoring	ND	SCI.6.6.2.4	Use appropriate tools and techniques to gather and analyze data
Center of Gravity, Pitch, Yaw	ND	SCI.6.6.1.1	Construct a model to represent concepts, features, or phenomena in the real world (e.g., solar system, earth's interior)
Fuel Efficiency	ND	SCI.6.6.1.1	Construct a model to represent concepts, features, or phenomena in the real world (e.g., solar system, earth's interior)
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<b>Grade 7</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Vectoring	ND	SCI.7.7.2.1	Communicate the results of scientific investigations using an appropriate format (e.g., journals, lab reports, diagrams, presentations, discussions)
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<b>Grade 8</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Jet Propulsion	ND	SCI.8.8.2.2	Use evidence to generate descriptions, explanations, predictions, and models

Vectoring	ND	SCI.8.8.2.2	Use evidence to generate descriptions, explanations, predictions, and models
Fuel Efficiency	ND	SCI.8.8.2.2	Use evidence to generate descriptions, explanations, predictions, and models